

ETALBOND®

Composite material

TECHNICAL DATA SHEET

PANEL Thickness		mm	3	4	6
1. PANEL DIMENSIONS					
1.1 Aluminium Thickness	mm	0,5	0,5	0,5	
1.2 Etalbond Weight	Kg/m²	4.6	5.5	7.3	
1.3 Standard width	mm	1250, 1500			
1.4 Standard length	mm	3200			
2. DIMENSIONAL TOLERANCES					
2.1 Panel thickness	mm	± 0.2			
2.2 Panel width	mm	-0.00 / +2.00			
2.3 Panel length	mm	≤ 4000 mm : -0.0 / +4 4001 -6000 mm: -0.0 / +6 6001- 8000 mm: -0.0 / +10			
2.4 Diagonal difference	mm	3 mm			
3. TECHNICAL PROPERTIES					
3.1 Section modulus (W)	cm³/m	1.25	1.75	2.75	
3.2 Rigidity (Ex I)	kNcm² / m	1250	2400	5900	
3.3 Alloy		EN AW- 3105			
3.4 Temper of Aluminium sheets		H44 (Painted)			
3.5 Modulus of Elasticity (E)	N /mm²	70000			
3.6 Tensile strength (Rm)	N/mm²	≥150			
3.7 Yield strength (Rp0.2)	N/ mm²	≥120			
3.8 Elongation (A ₅₀)	%	≥4%			
3.9 Linear Thermal Expansion		2.4 mm per linear meter for temperature difference of 100 °C			
4. CORE					
4.1 Density of Polyethylene, Type LDPE	g/cm³	0.92			
5. SURFACE PREPARATION and PAINT CHARACTERISTICS					
5.1 Surface Preparation	With chemical preparation (Degreasing, Chromatisation)				
5.2 Lacquering	Coil Coating				
5.3 Visible Surface	<ul style="list-style-type: none">● PVDF-3 Paint thickness: approximately, 32 µm or● PVDF-2 Paint thickness: approximately, 30 µm or● VHDPE Paint thickness: approximately, 25 µm				
6. TEMPERATURE BEHAVIOUR					
6.1 Excellent behaviour in temperatures	From -50 °C to +80 °C				
7. SURFACE BURNING CHARACTERISTICS					
COUNTRY:	Test according to..		Classification		
7.1 Germany	DIN 4102		B2		
7.2 France	NFP 92-501		Class M1		
7.3 United Kingdom	BS 476, Part6 BS 476, Part7		Index 0 Class 1 ► Class 0 (Bldg. Reg.)		
7.4 Italy	CSE RF 2/75/A, RF 3/77		Class 1		
7.5 Switzerland	VKF regulation		Class 4.2		
7.6 Russia	ГОСТ, 30244-94 ГОСТ, 30402-96 ГОСТ,12.1.044-89 ГОСТ,12.1.044-89		Fire Classification: G2 Flash classification: B1 Smoke development:D2 Toxicity:T2		
8. PRODUCT CERTIFICATIOONS					
Country	Certification				
Great Britain	BBA Agrément Certificate No. 07/4464				
Poland	APROBATA TECHNICZNA ITB AT-15-6556/2011				
Switzerland	Homologation VKF No. Z17104				